

FORM PTO-1390 (REV. 11-2000)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER 3589.65672
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 09/869849
INTERNATIONAL APPLICATION NO. PCT/CA00/01292	INTERNATIONAL FILING DATE 6 November 2000	PRIORITY DATE CLAIMED 8 November 1999	
TITLE OF INVENTION THUMB SPLINT			
APPLICANT(S) FOR DO/EO/US FISHER, Harold			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment.</p> <p>14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: International Search Report</p>			

I hereby certify that this paper is being deposited with the United States Postal Service as EXPRESS MAIL in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on July 6, 2001
Express Label No.: EL 846166269 US

Signature: *Carle A. Mickelson*
EXPRESS WCM
Appr. February 20, 1998

U.S. APPLICATION NO. 099/869849 INTERNATIONAL APPLICATION NO. PCT/CA00/01292		ATTORNEY'S DOCKET NUMBER 3589.65672																										
21. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. \$1000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 ENTER APPROPRIATE BASIC FEE AMOUNT =		CALCULATIONS PTO USE ONLY																										
Surcharge of \$130.00 for furnishing the oath or declaration later than <input checked="" type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$ 860.00																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 15%;">RATE</th> <th style="width: 30%;">\$</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>15 - 20 =</td> <td>0</td> <td>x \$18.00</td> <td>\$ -0-</td> </tr> <tr> <td>Independent claims</td> <td>3 - 3 =</td> <td>0</td> <td>x \$80.00</td> <td>\$ -0-</td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$270.00</td> </tr> <tr> <td colspan="4">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 990.00</td> </tr> </tbody> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	Total claims	15 - 20 =	0	x \$18.00	\$ -0-	Independent claims	3 - 3 =	0	x \$80.00	\$ -0-	MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$270.00	TOTAL OF ABOVE CALCULATIONS =				\$ 990.00	\$ 130.00	
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<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$ 495.00																										
SUBTOTAL =		\$ 495.00																										
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$ -0-																										
TOTAL NATIONAL FEE =		\$ 495.00																										
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$																										
TOTAL FEES ENCLOSED =		\$ 495.00																										
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		charged: \$																										
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>495.00</u> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>07-2069</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.																												
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.																												
SEND ALL CORRESPONDENCE TO: Carole A. Mickelson GREER, BURNS & CRAIN, LTD. 300 S. Wacker Drive, Suite 2500 Chicago, Illinois 60606 Phone: (312) 360-0080 Fax: (312) 360-9315 Customer No.: 24978																												
		<i>Carole A. Mickelson</i> SIGNATURE																										
		<u>Carole A. Mickelson</u> NAME																										
		<u>30,778</u> REGISTRATION NUMBER																										

09/869849

JC18 Rec'd PCT/FTO 0 6 JUL 2001

3589.65672

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application)

Applicant: FISHER, Harold)

Serial No.:)

Filing Date: July 6, 2001)

For: THUMB SPLINT)

Int'l Serial No.: PCT/CA00/01292)

Int'l Filing Date: 6 November 2000)

Group Art Unit: To be assigned)

Examiner: To be assigned)

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PRELIMINARY AMENDMENT

BOX PCT

Assistant Commissioner for Patents

Washington, D.C. 20231

Dear Sir:

Prior to examination of this application, please amend the application as follows:

IN THE ABSTRACT:

An Abstract is enclosed on a separate sheet as follows:

A thumb splint comprises a thumb receiving section for receiving a thumb of a user, an index finger receiving section for receiving an index finger of a user, a non-extendable, flexible connector extending between and secured to the thumb receiving section and the index finger receiving section for limiting abduction of the thumb to a predetermined


value while permitting the thumb and index finger to move in a pinching action; and an elongated strap secured to the index finger receiving section for keeping the thumb and index finger receiving sections operatively positioned on the index finger and thumb, respectively.

REMARKS

Prior to examination of this application, the Examiner is respectfully requested to consider the above-listed Amendment.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By 

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July 6, 2001

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THUMB SPLINT

The present invention relates to a thumb splint for use in protecting and preventing injury to an injured or uninjured ulnar collateral ligament at the base of the thumb.

10

Background of the Invention

A sprain is a joint injury that causes a stretch or tear in a ligament, which is a strong band of tissue which connects one bone to another. A sprain of the ulnar collateral ligament in the thumb is a common injury in skiing and commonly referred to as "Skier's Thumb". It may occur when one falls onto an outstretched thumb, bending the thumb back toward the arm. This stretches and injures the ulnar collateral ligament. It may also be caused by a skier catching a thumb on a ski pole strap. The sprain may occur in other activities when one falls onto an outstretched thumb or when a thumb gets hooked onto another player's jersey or face mask. The injury results in pain, swelling, and tenderness at the inner part of the base of your thumb where the thumb attaches to the hand. The patient may find it difficult to hold an object in his hand and apply force with the thumb. Moving the thumb causes pain.

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Treatment varies with the severity of the injury. Grade III sprain with a very loose joint requires surgery to repair the ligament. Grade I and II sprains may be treated with a cast, taping, or splinting so that the thumb does not move for up to six weeks.

The drawback of taping the thumb is that a relatively large amount of tape is required, the tape is relatively heavy and cumbersome and must be replaced relatively frequently, usually with assistance from another person.

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Hand splint devices commonly used for the thumb typically utilize a rigid splint which secure the thumb in a fixed position by supporting the back side of the thumb and prevents any flexing of the thumb. Such rigid and fixed methods of support effectively completely immobilize the thumb. However, it is desirable to support the thumb in a manner which permits normal movement of the hand and full motion of the thumb, but prevents the hyper-extension of the thumb backwards. Prior art devices generally do not permit such full motion of the thumb. Further, prior art supports and splints generally obstruct the palm of the hand and thus render the hand movement substantially

5 debilitated. Prior art also may require a glove or glove system to be worn rather than a simple unobtrusive fabric.

Summary of the Invention

10 The present invention seeks to provide a thumb splint which protects the thumb while allowing substantially normal motion of the hand and thumb without rigid components or necessity to be used as part of a glove, and yet which is of low cost, lightweight, comfortable, easy to apply or remove, and easy to manufacture since it is made of one continuous ribbon of material folded and sewn/bonded.

15 The present invention is generally defined as a thumb splint comprising a thumb stabilizing component for securing the thumb of the user to the adjacent index finger permitting the thumb to move toward the index finger and leaving the digits free but limiting movement of the thumb away from the index finger to a predetermined angle; and a positioning component for securing the thumb stabilizing component in proper position on the hand of the user.

20 This unobtrusive and lightweight design will allow it to be used without a glove (e.g. basketball, tennis), or to fit under any other sports glove (e.g. skiing, hockey, baseball, etc.).

Brief Description of the Drawings

25 These and other features of the invention will become more apparent from the following description in which reference is made to the appended drawings in which:

Figure 1 is a plan view of a thumb splint in accordance with one embodiment of the present invention;

30 Figure 2 is a plan view of a thumb splint illustrating the thumb stabilizing portion of the splint operatively positioned on the hand of a user;

Figures 2, 3 and 4 are a plan views illustrating the various stages of the procedure of applying the positioning component of the splint is applied; and

35 Figure 5 is a plan view of the back of the hand of a user showing the splint in its normal applied position.

Detailed Description of Preferred Embodiment of the Invention

Figure 1 illustrates an embodiment of a thumb splint 10 of the present invention. The splint is generally comprised of a thumb stabilizing component 12 and a positioning component 14 for keeping the stabilizing component in proper position on the wearer's hand.

The stabilizing component 12 permits the thumb and index finger to move towards one another but precludes them from moving apart (abduct) beyond a predetermined angle. As best shown in Figure 2, the stabilizing component comprises a thumb receiving section 18, an index finger receiving section 16 and a flexible, non-extendable, connector 20 which extends between and is secured to the thumb and finger receiving sections. The thumb receiving section 16 is arranged to engage a substantial portion of the side of the proximal phalanx bone of the thumb remote from the index finger. The index finger receiving section receives the index finger of the wearer and is positioned proximate the joint at which the index finger is connected to the hand, the carpometacarpal joint. The connector is flexible so as to permit the thumb and index finger to move towards one another in a pinching action, allowing the wearer to grip a ski pole or the like, and of a length which limits the thumb to move to a maximum angular distance with respect to the index finger in the order of about 90 to 100 degrees.

Both sections are formed to minimize the stresses applied to the thumb and index finger. This is achieved by forming the sections from relatively thin, wide straps which provide a relatively large skin engaging surface area. The connector may be made of any suitable material capable of absorbing forces applied to the thumb and index finger. Thus, the connector may be integral with the thumb and index finger receiving sections. Alternatively, the connector could be a separate element in the form of a narrow strip of material or a string or wire of suitable strength. In one embodiment of the invention, both sections and the connector are formed of thin, light weight material such as polyester or nylon webbing having a width of about 2.5 cm.

The positioning component serves to keep the thumb stabilizing component in proper position by drawing the stabilizing component toward the wrist of the wearer. In accordance with a preferred embodiment of the invention, the positioning component is comprised of an elongated strap 22. One end 24 of the strap is secured to the stabilizing

5 component proximate the index finger receiving section. The other end **26** of the strap is releasably connectable to the stabilizing component or to the one end **24** of the strap. A preferred releasable connector comprises a pair of inter-engageable velcro strips **30** and **32**. One of the velcro strips is secured to the one end **24** of the strap and the other strip is secured to the other end **26** of the strap. It will be understood that various other
10 releasable connectors may be employed, including buttons, snaps, and the like.

The strap is of sufficient length so as to extend from the stabilizing component, along the palm of the hand, wrap around the wrist once, and then extend along the back side of the hand and releasably engage either the stabilizing component or the first end of strap. Preferably, the strap applies substantially equal forces to both sides the thumb and
15 finger receiving sections so that both are kept firmly in position.

In a preferred embodiment of the invention, the splint is formed of a single strip of webbing material of uniform width of about 2.5 cm. The thumb receiving section is formed by folding one end of the strip onto itself and securing it to the strip by sewing. The index finger receiving section is formed a suitable distance from the thumb receiving section by again folding over the end of the strip such that the length of the web extends substantially transversely of the length of the webbing material and secured there by
20 sewing. The portion of the web between the thumb and index finger receiving sections constitutes the connector. The balance of the length of webbing is the positioning strap.

To apply the splint, the user simply inserts his or her thumb and index finger into
25 the thumb and index finger receiving sections, respectively, as shown in **Figure 2**. The index finger receiving section is fitted snugly against the metacarpophalangeal joint. The thumb receiving section is positioned so that its width extends along the side of the proximal phalanx remote from the index finger. The strap is then drawn downwardly toward the wrist over the palm of the hand, pulled around the back of the hand and wrist
30 as shown in **Figure 3**, and then around the front of the wrist, and then pulled upwardly along the backside of the hand (**Figure 4**), between the thumb and index finger and secured by engaging the two velcro strips **30** and **32**. The final applied configuration is shown in **Figure 5**.

The splint could be used alone or incorporated into the production of various types
35 of gloves so that it would be in place when a skier pulls the gloves on. While primarily

5 designed for skiing, the thumb splint would also be appealing in other sports and activities where an unsupported thumb can be damaged easily.

It will be seen that the thumb splint of the present invention fulfills the need for a thin, light weight, splint that would prevent a skier from injuring his thumbs and that would be of low cost, comfort, and ease of application or removal.

10 The splint limits the abduction of the thumb to between 90 and 100 degrees, limits the extension of the thumb to between 90 and 100 degrees, and limits the posterior translation of the thumb. This would provide protection in the event of a fall so that the wearer is not injured.

15 For increased appeal, the thumb splint is light and thin so that it is comfortable to wear. The splint does not interfere with the wearer's ability to move his thumbs or fingers, and can still grip the handles of his ski poles. The straps could be worn by themselves or under a pair of gloves. The straps could also be incorporated into the production of a pair of liner gloves or a pair of waterproof, insulated outer gloves. It will also be seen that the splint is quick and easy to put on or take off, and is readily adjustable for a comfortable fit.
20 The straps would fit snugly, but would not restrict the flow of blood to the fingers or thumbs, and they would not cause the wearer's hands to sweat excessively.

25 Although the present invention has been described with reference to its preferred embodiments, those skilled in the art will recognize changes which may be made in form or structure which do not depart from the spirit of the invention already described in the specification and embodied in the claims which follow.

I Claim:

1. A thumb splint, comprising:
 - a thumb stabilizing component for securing the thumb of the user to the adjacent index finger permitting the thumb to move toward the index finger but limiting movement of the thumb away from the index finger to a predetermined angle; and
 - a positioning component for securing the thumb stabilizing component in proper position on the hand of the user.
2. A thumb splint as defined in claim 1, said thumb stabilizing component comprising:
 - a thumb receiving section for receiving a thumb of a user;
 - an index finger receiving section for receiving an index finger of a user;
 - a non-extendable, flexible connector extending between and secured to the thumb section and the index finger section for limiting abduction of the thumb to a predetermined value.
3. A thumb splint as defined in claim 1, said positioning component comprising an elongated strap having a first end secured to said thumb stabilizing component and a second end releasably securable to said one end of said strap or to said stabilizing component for keeping the stabilizing component operatively positioned on the hand of the user.
4. A thumb splint as defined in claim 2, said positioning component comprising an elongated strap having a first end secured to said thumb stabilizing component adjacent said index finger receiving section and a second end releasably securable to either said one end of said strap or to said stabilizing component for keeping the said thumb and index finger receiving sections operatively positioned on the hand of the user.

5. A thumb splint as defined in claim 4, said strap having a length sufficient to extend from said stabilizing component, along the palm of the hand of the user, to and around the wrist and along the backside of the hand.
6. A thumb splint as defined in claim 5, said thumb stabilizing component and said positioning component being integral and formed of a single length of polyester or nylon or other suitable fabric webbing.
7. A thumb splint as defined in claim 2, wherein said splint is incorporated into a glove or mitt.
8. A thumb splint, comprising:
a thumb receiving section for receiving a thumb of a user;
an index finger receiving section for receiving an index finger of a user;
a non-extendable, flexible connector extending between and secured to the thumb receiving section and the index finger receiving section for limiting abduction of the thumb to a predetermined value; and
an elongated strap secured to the index finger receiving section for keeping the thumb and index finger receiving sections operatively positioned on the index finger and thumb, respectively.
9. The splint as claimed in claim 8, wherein said splint are made from one continuous thin and light weight ribbon of material.
10. The splint as claimed in claim 9, wherein said material is polyester or nylon or other suitable webbing.
11. The splint as claimed in claim 8, said thumb receiving section having a surface for engaging a substantial portion of the distal side, relative to the index finger, of the proximal phalange of the thumb.

12. The splint as claimed in claim 8, wherein said index finger receiving section fits around the base of the proximal phalange of the index finger.
13. The splint as claimed in claim 8, wherein said connector is of a length that the thumb can move and extend back freely, but not hyper-extend or abduct the thumb away from the base of the index finger beyond 100 degrees to a position where a wearer could injure the thumb.
14. The splint as claimed in claim 8, wherein said securing strap attached to the index finger receiving section at the point where said index finger receiving section connects with the connector to hold the receiving sections down on the fingers, wrapped across the hand and the wrist to secure said splint.
15. A thumb splint, comprising:
one continuous thin and light weight ribbon of polyester or nylon material formed to define:
a thumb receiving section for receiving a thumb of a user, said thumb receiving section having a surface for engaging a substantial portion of the distal side, relative to the index finger, of the proximal phalange of the thumb;
an index finger receiving section for receiving an index finger of a user, said index finger receiving section fits around the base of the proximal phalange of the index finger;
a non-extendable, flexible connector extending between and secured to the thumb receiving section and the index finger receiving section for limiting abduction of the thumb to a predetermined value, said connector is of a length that the thumb can move and extend back freely, but not hyper-extend or abduct the thumb away from the base of the index finger beyond 100 degrees to a position where a wearer could injure the thumb;
and
an elongated strap secured to the index finger receiving section for keeping the thumb and index finger receiving sections operatively positioned on the index finger and thumb, respectively; said securing strap being attached to the index finger receiving section at the point where said index finger receiving section connects with the connector

to hold the receiving sections down on the fingers, wrapped across the hand and the wrist

to secure said splint.

[illegible]

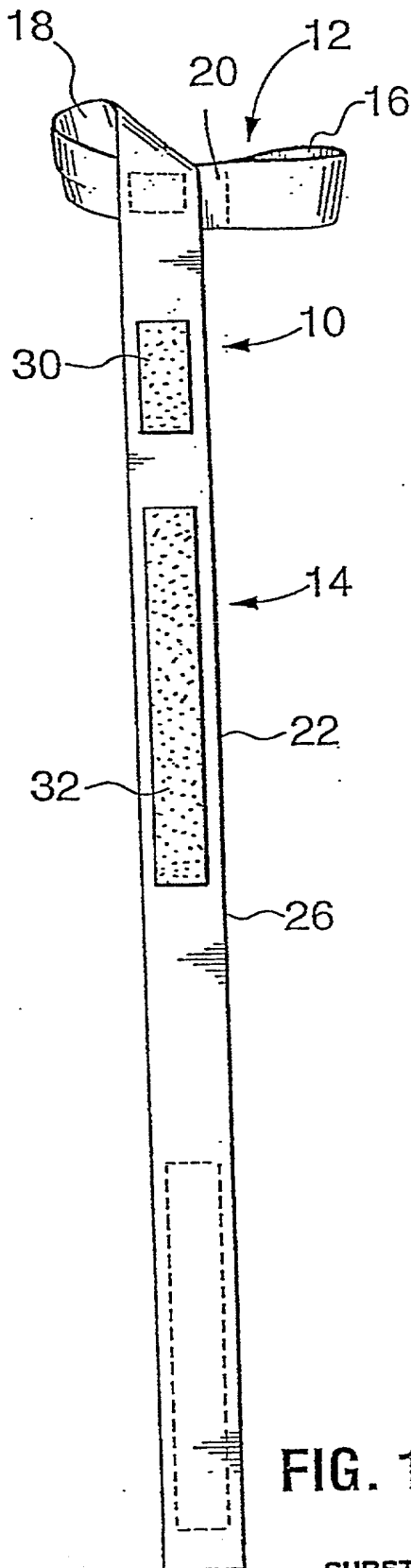


FIG. 1

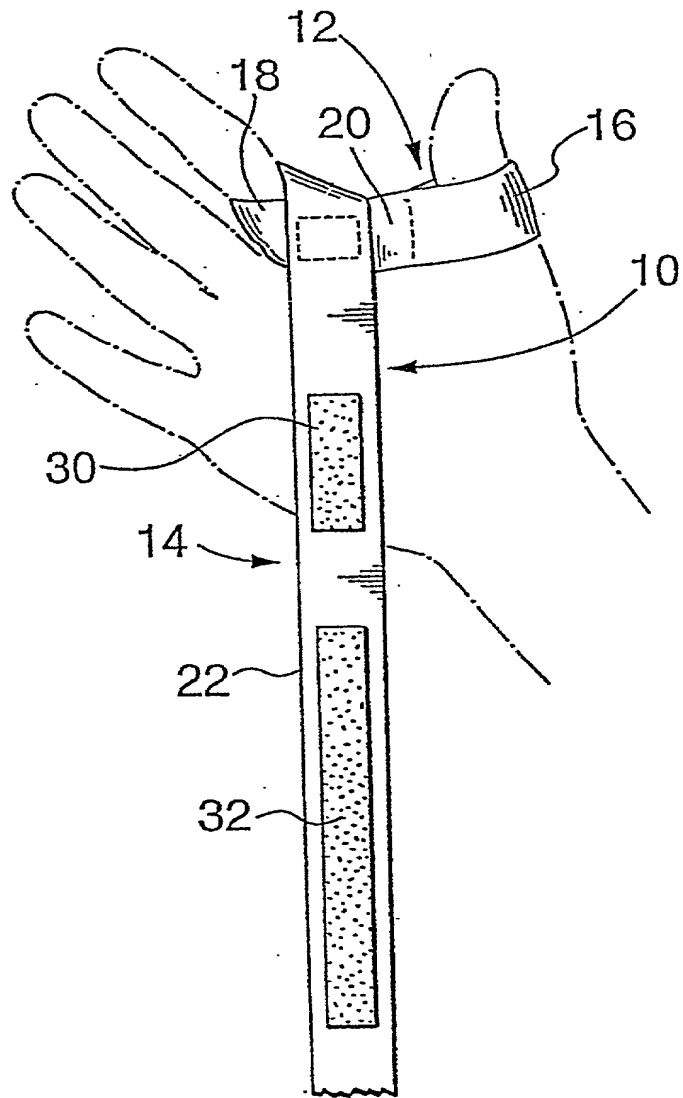
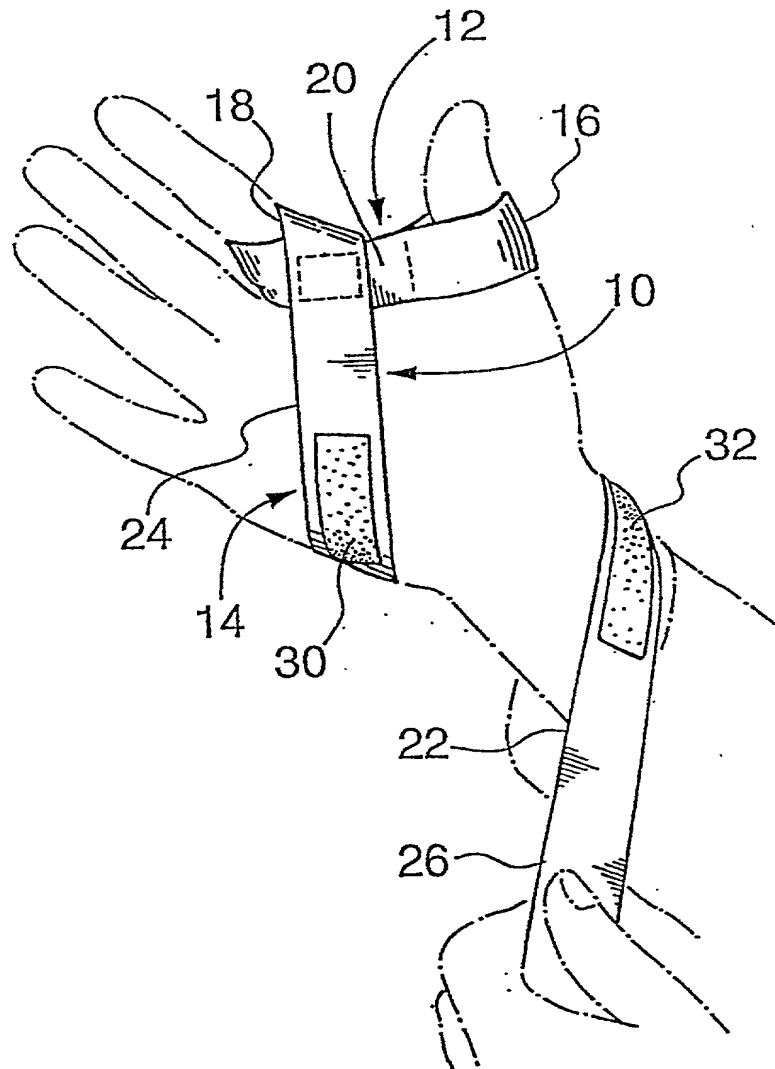
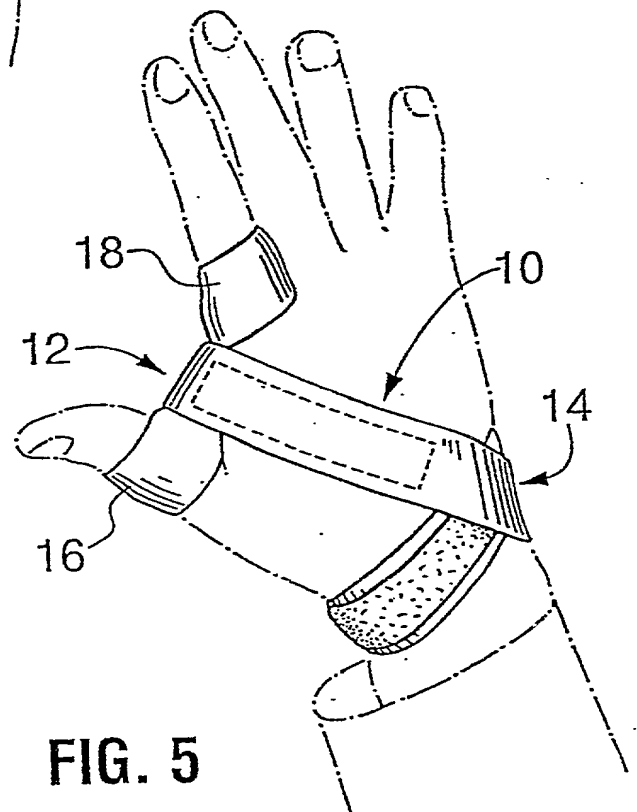
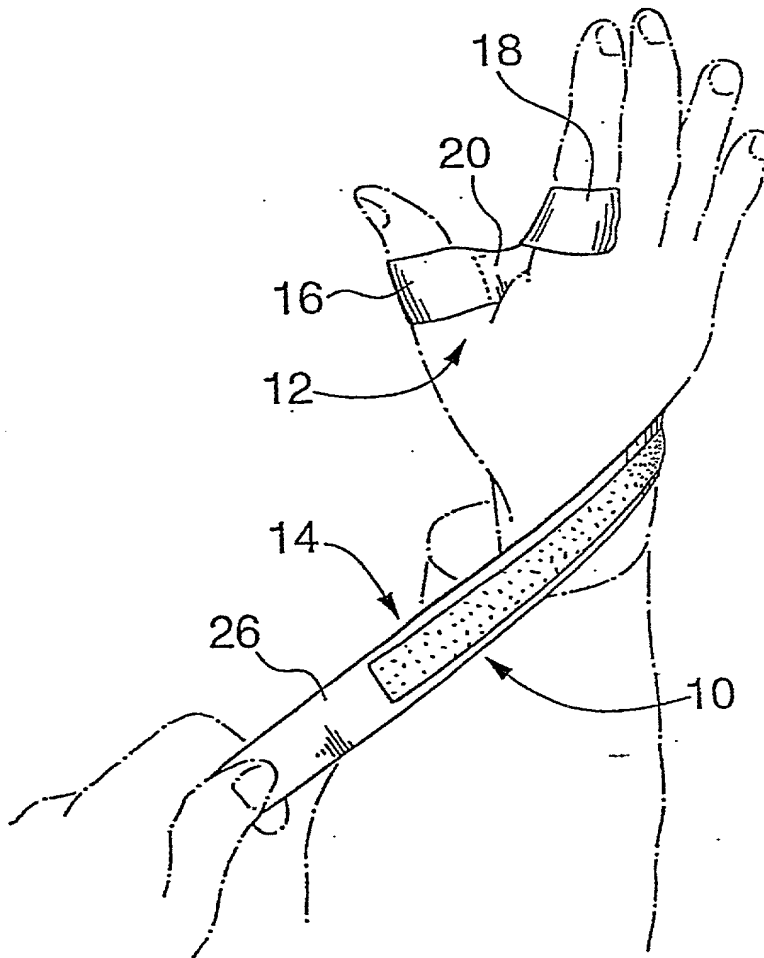


FIG. 2





DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare:

That my residence, post office address and citizenship are as stated below next to my name.

That I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

THUMB SPLINT

the specification of which (check one)

☐ is attached hereto.
☒ was filed on 6 November 2000 as
 Application Serial No. PCT/CA00/01292
 and was amended on _____
 (if applicable)

That I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

That I acknowledge the duty to disclose information known to be material to patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

That I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
<u>2,286,959</u>	<u>Canada</u>	<u>8 November 1999</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

That I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

United States Application(s)

_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)-(Patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)-(Patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)-(Patented, pending, abandoned)

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

I hereby appoint the following attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith and request that all correspondence and telephone calls in respect to this application be directed to GREER, BURNS & CRAIN, LTD., 300 South Wacker Drive, 25th Floor, Chicago, Illinois 60606, Telephone No. (312) 360-0080:

Attorney

Registration No.

13
Roger D. Greer
Patrick G. Burns
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Steven P. Fallon
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James K. Folker
B. Joe Kim
Carole A. Mickelson
Brittany C. MacDonald
Arik Ranson
Thomas R. Fitzsimons
Josh C. Snider
Kim A. Jacklin

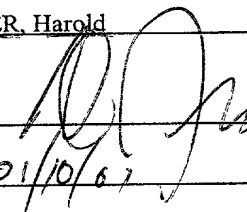
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47,954
47,680

Full name of sole or one
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1-08

FISHER, Harold

Inventor's signature:


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